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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/518,051	08/22/1995	STEPHEN D. RUSSELL	74023	8136
7	01/09/2003			
COMMANDING OFFICER LEGAL COUNSEL FOR PATENTS NCCOSC RDTE DIV CODE 0012 53510 SILVERGATE AVENUE RM 103			EXAMINER	
			MENGISTU, AMARE	
	CA 921525765		ART UNIT	PAPER NUMBER
,			2673	
			DATE MAILED: 01/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No. 08/518,051

Applicant(s)

Stephen D. Russell et al

Examiner

First Last

Art Unit 1234



	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address		
Period 1	for Reply			
	ORTENED STATUTORY PERIOD FOR REPLY IS SET	TO EXPIRE 3 MONTH(S) FROM		
	MAILING DATE OF THIS COMMUNICATION.	no event, however, may a reply be timely filed after SIX (6) MONTHS from the		
mailing	date of this communication.			
-	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a			
	to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of t			
	patent term adjustment. See 37 CFR 1.704(b).	is continuing that it talloy hos, may read any		
Status				
1) 💢	Responsive to communication(s) filed on <u>Dec 3, 20</u>			
2a) ∐	This action is FINAL . 2b) This act	ion is non-final.		
3) 🗌				
D!	closed in accordance with the practice under Ex pai	rte Quayle, 1935 C.D. 11; 453 O.G. 213.		
	tion of Claims			
4) X	Claim(s) <u>12-17</u>	is/are pending in the application.		
2	a) Of the above, claim(s)	is/are withdrawn from consideration.		
5) 💢	Claim(s) <u>16 and 17</u>	is/are allowed.		
6) 🗶	Claim(s) <u>12-15</u>	is/are rejected.		
7) 🗌	Claim(s)	is/are objected to.		
8) 🗌	Claims	are subject to restriction and/or election requirement.		
Applica	ation Papers			
9) 🗌	The specification is objected to by the Examiner.			
10)	The drawing(s) filed on is/are	a) \square accepted or b) \square objected to by the Examiner.		
	Applicant may not request that any objection to the d	rawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examiner.		
	If approved, corrected drawings are required in reply t	to this Office action.		
12)	The oath or declaration is objected to by the Exami	ner.		
Priority	under 35 U.S.C. §§ 119 and 120			
13)∐	Acknowledgement is made of a claim for foreign pr	fiority under 35 U.S.C. § 119(a)-(d) or (f).		
a) [☐ All b)☐ Some* c)☐ None of:			
	1. Certified copies of the priority documents hav	e been received.		
	2. Certified copies of the priority documents hav	e been received in Application No		
	 Copies of the certified copies of the priority de application from the International Bure. 	ocuments have been received in this National Stage au (PCT Rule 17.2(a)).		
*S	ee the attached detailed Office action for a list of the			
14)	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. § 119(e).		
	The translation of the foreign language provisional			
15)∐	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. §§ 120 and/or 121.		
Attachm				
$\stackrel{\sim}{\sim}$	otice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).		
_	otice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO-1449) Paper No(s).	5) Notice of Informal Patent Application (PTO-152)		
in	Tomación Disclosure Statement(s) (F10-1443) Paper No(s).	6)		

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DETAILED ACTION

Claim Rejections - 35 U.S.C. § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,4,12-15, are rejected under 35 U.S.C. 103(a) as being unpatentable over LIANG Yue (WO 94/08331) in view of Applicant's Admitted Prior Art and Johanny et al (5,196,839).

As to claims 1,4,12-15, LIANG Yue (hereinafter LIANG) discloses a fault tolerant LCD, controller for controlling the gray scale on at least one pixel (Abstract;page 8, lines 25-28) of LCD region. LIANG did not disclose in detail the structure of the LCD. However, Applicant's Admitted Prior Art a STN liquid crystal display system (figs. 1-3, also see, page 8, the last 2 lines) comprising: a light source (22); a polarizer / an intensity homogenizing (16), a beam of incident light (22), a plurality of liquid crystal display regions coupled (14) to the polarizer; a plurality of pixels of the LCD region, each pixels having a collinear one to one correspondence with a pixel on an adjacent LCD region; an analyzer coupled to the polarizer and the pixel sequence to pass a gray-scale portion of the beam of polarized light transmitted from the pixel sequence as a function of polarized angle (page, 8, lines 6-23), a transparent substrates (12); and a drive circuit (18).

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Therefore it would have been obvious to one skill in the art at the time of the invention was made to have been motivated to combine the use of polarizer as taught by AAPA with a fault tolerant LCD of LIANG since this will provide a uniform brightness to the LCD system.

LIANG (as modified by Applicant's Admitted Prior Art) discloses a liquid crystal display with a gray scale control, but has failed to explicitly teach the gray scale control includes a programmable gray scale driver. Johany is cited to teach that it is well known for a gray scale display circuit to have a programmable gray scale generators (drivers) to provide gray scale at the display (see, Abstract, col.2, lines 35-46).

Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to have incorporated programmable gray-scale drives of Johany into the system of LIANG, since this will allow the LIANG device to have an advantage of automatically control the gray scale of a display in order to ensure simplicity and higher efficiency of adjustment operation without requiring operators.

Allowable Subject Matter

2. Claims 16 and 17 are allowed.

Response to Arguments

3. Applicant's arguments with respect to claims 1,12-17 have been considered but are moot in view of the new ground(s) of rejection.

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4. Any inquiry concerning this communication should be directed to Amare Mengistu at

telephone number (703) 305-4880.

5. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label

"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington. VA., Sixth Floor (Receptionist).

A.M(h)

Art Unit 2673

January 8,2002

Amare Mengistu
Primary Examiner

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